



# Washington (WA)

**PSIC Federal Award: \$19,180,347**

(Awarded September 30, 2007)

## Summary

PSIC Investment Justification	Federal Funds
Homeland Security Regions 1 and 2 Interoperability	\$7,378,500
Spokane-Kootenai Regional Emergency Communications System	\$1,919,800
Pierce County Interoperable Multi-Jurisdictional, Multi-Discipline Radio Network	\$2,313,115
King County South Loop Microwave	\$1,935,995
Puget Sound Next-Generation Voice/Data System—UASI	\$3,417,274
Puget Sound Next-Generation Voice/Data System—Thurston County	\$1,620,253
Management and Administration (M&A)	\$575,410
Statewide Planning	\$20,000
<b>Total PSIC Award</b>	<b>\$19,180,347</b>

**Pass-through:** The State of Washington fulfilled the PSIC Grant Program requirement by passing through a minimum of 80 percent of the total award amount to local or tribal governments or authorized nongovernmental public safety agencies.

**Strategic Technology Reserve (STR):** Washington submitted a written STR waiver request based on the fact that Washington had previously invested in an STR. The State currently maintains adequate mobile and deployable communications resources (e.g., deployable communications trailer capable of satellite, VHF, UHF, and 800 MHz connectivity, radio cache,) to re-establish communications if existing critical infrastructure is damaged or destroyed, and was therefore granted a full waiver.

## Investments

### Homeland Security Regions 1 and 2 Interoperability

Federal Amount:	\$ 7,378,500
Non-Federal Match Amount:	\$ 1,627,674
<b>Total Project Cost:</b>	<b>\$ 9,006,174</b>



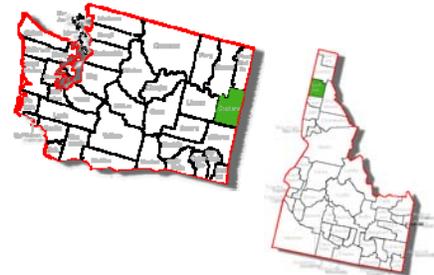
<b>98%*</b> Acquisition & Deployment	<b>1%</b> Training & Exercise	<b>1%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Emergency operation centers (EOC), public safety answering points (PSAP), and local agencies in Homeland Security Regions 1 and 2 currently operate on disparate radio systems and cannot communicate easily. This Investment will enable the State to connect an existing microwave backbone in Homeland Security Region 2 with a new microwave backbone in Region 1 to increase interoperability among first responders. Funding will be used to deploy a microwave backbone, install additional microwave spurs in strategic locations, deploy a Radio over Internet Protocol (RoIP) network, install additional crossband repeaters, install an emergency generator at a tribal EOC, simulcast the Skagit County Sheriff's frequency, install a microwave satellite integration gateway (MSIG) hub, and complete a needs assessment for a joint PSAP/EOC facility. This Investment will facilitate interoperability in Homeland Security Regions 1 and 2, expand coverage and increase capabilities among Federal, State, local, and tribal public safety agencies and nongovernmental organizations (NGO), and ready the State for the 2010 Olympics.

### Spokane-Kootenai Regional Emergency Communications System

Federal Amount:	\$ 1,919,800
Non-Federal Match Amount:	\$ 653,000
<b>Total Project Cost:</b>	<b>\$ 2,572,800</b>



<b>99%*</b> Acquisition & Deployment	<b>&lt;1%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

A study completed in 2003 indicated that there was no unified means of interoperability for first responders in the Spokane region. Multi-agency responses in the Spokane, Washington region and in the neighboring Kootenai, Idaho region have been inhibited by inadequate radio coverage, the lack of available channels, and incompatibilities that exist between primary and backup equipment and systems. This Investment will provide for the creation of a 700 megahertz (MHz) Project 25 (P25) digital simulcast radio system that will integrate existing radio systems that operate on various frequency bands. It will use digital and VHF channels linked through a master switch to provide interoperable voice and data communications. This Investment will use advance technology solutions and standards-based equipment to provide a means for disparate systems to communicate and for first responders and State agencies to interoperate.

## Pierce County Interoperable Multi-Jurisdictional, Multi-Discipline Radio Network



Federal Amount:	\$ 2,313,115
Non-Federal Match Amount:	\$ 579,661
<b>Total Project Cost:</b>	<b>\$ 2,892,776</b>

<b>98%*</b> Acquisition & Deployment	<b>2%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Disparate radio and dispatch networks currently make communications difficult within Pierce County. The primary purpose of this Investment is to upgrade all dispatch centers to the same technology and link PSAPs and dispatch centers to a common regional network. The County will also develop standard operating procedures and training for all users. This Investment will allow all critical dispatch centers in Pierce County to communicate with one another and provide backup support when needed. This will allow users to talk on critical radio systems in the County and patch together any channels in the County so that first responders can communicate with each other. This Investment will increase interoperability for City agencies, EOCs, Tribal Police, Washington State Patrol, Tacoma Port Authority, Pierce County Sheriff's Department, and first responders.

## King County South Loop Microwave



Federal Amount:	\$ 1,935,995
Non-Federal Match Amount:	\$ 494,485
<b>Total Project Cost:</b>	<b>\$ 2,430,480</b>

<b>100%*</b> Acquisition & Deployment	<b>0%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

King County Emergency Radio System (KCERS) is an aging 800 MHz trunked radio system with two microwave loops owned by four owner-agencies. The North Loop was upgraded to a higher capacity network, but the South Loop did not receive that upgrade. This Investment will address the gap in the South Loop and allow the County to design and install a high capacity digital microwave network capable of transmitting voice and data. The Investment will provide additional capacity to accommodate more users and long-term expansion capabilities. This P25-compliant network will support the necessary capability expansions in King County, and provide backhaul to link disparate systems. The upgrades will enable interoperability for State and County agencies and first responders operating in the region.

## Puget Sound Next-Generation Voice/Data System—UASI



Federal Amount:	\$ 3,417,274
Non-Federal Match Amount:	\$ 1,463,074
<b>Total Project Cost:</b>	<b>\$ 4,880,348</b>

<b>99%*</b> Acquisition & Deployment	<b>&lt;1%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Existing voice radio systems in the Puget Sound area are not compatible. VHF/UHF subscriber units used by first responders in neighboring counties will not operate with the Seattle Urban Area 800 MHz trunked system. The 800 MHz subscriber units in the Seattle area will not work on the UHF/VHF systems outside the urban area. This Investment will fund an IP-based P25-compliant switch capable of switching voice/data traffic and consoles to allow interoperability between disparate systems. This Investment will replace current technology with P25-compliant equipment that will enable interoperability between multiple agencies and jurisdictions. The new equipment, operating in the 700 MHz band, will allow for interoperable communication within the Seattle Urban Area Security Initiative (UASI) and in the surrounding counties, and will allow for the expansion of the P25 network to accommodate other counties and agencies in the region.

## Puget Sound Next-Generation Voice/Data System—Thurston County



Federal Amount:	\$ 1,620,253
Non-Federal Match Amount:	\$ 404,973
<b>Total Project Cost:</b>	<b>\$ 2,025,226</b>

<b>100%*</b> Acquisition & Deployment	<b>0%</b> Training & Exercise	<b>0%</b> Planning & Coordination
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*\*Percentages include both Federal and non-Federal Match funds.*

Currently, the State Capitol emergency radio system has limited coverage, lacks adequate redundancy, and is unable to connect with the regional system. This Investment will connect the current Thurston County Network with the Tri-County Seattle area through the installation of high-capacity digital microwave links at existing remote radio sites. The P25 switch will use a high capacity digital microwave backbone to provide voice and data communications and enhance emergency mutual aid for first responders. In addition, secure data sharing will become possible within local governments and between State government agencies. As a result of this Investment, coverage for public safety emergency responders will be expanded, interoperability between State and local agencies will be enhanced, and communications between response agencies that provide assistance along the Interstate-5 corridor will be improved.

## PSIC Administration and Statewide Planning Costs

### Management and Administration (M&A)

Federal Amount:	\$ 575,410
Non-Federal Match Amount:	\$ 115,082
<b>Total Project Cost:</b>	<b>\$ 690,492</b>

The State was allowed to retain up to three percent of the total PSIC award for costs associated with the administration of the State's PSIC Investments. The M&A costs could include hiring full-time or part-time staff or contractors for grant management services related to reporting, monitoring and audit compliance, and associated travel and meeting expenses.

### Statewide Planning

Federal Amount	\$20,000
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The State was allowed to retain up to five percent of the total PSIC award for Statewide Planning costs associated with the incorporation of the PSIC criteria into the Statewide Communication Interoperability Plan (SCIP). The Statewide Planning period of performance was April 1, 2007–December 3, 2007, with the submission of the SCIP.

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